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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/698,538	10/31/2003	Richard Calvin Mintz JR.	25165-03	9926
75	90 10/10/2006		EXAM	INER
John B. Hardaway, III NEXSEN PRUET JACOBS & POLLARD, LLC P.O. Box 10107 Greenville, SC 29603			DESCHERE, ANDREW M	
			ART UNIT	PAPER NUMBER
			2836	
		DATE MAILED: 10/10/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/698,538	MINTZ, RICHARD CALVIN				
Office Action Summary	Examiner	Art Unit				
	Andrew M. Deschere	2836				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address						
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on						
•	· ——					
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-28</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-28</u> is/are rejected.	·_					
7) Claim(s) is/are objected to.	7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>01 March 2004</u> is/are: a) accepted or b)⊠ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachmonto						
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate				
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal P 6) Other:	ratent Application				

DETAILED ACTION

Drawings

The drawings are objected to because sheet 1 of the drawings has improper figure labels. In light of the specification, "Fig. 1" should be properly labeled "Fig. 1A" and "Fig. 2" should be properly labeled "Fig. 1B". Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

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(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 3-8, 10, 11, 13-15, 17-19, 21-23, 25, and 26 rejected under 35 U.S.C. 102(b) as being anticipated by Eckersley (US 5,191,520).

Eckersley teaches a power supply system that provides power to multiple motors (Fig 1). Control is provided along data bus 32, between master control processor 30 and slave control processors 48. Slave units have a series of connection points along communication along data bus 32 and DC bus 16. Fuses 26 are installed in the power lines to provide protection in both the master and slave units. Control contractors 24 provide a switching mechanism to disconnect the motor loads, and current sensors 28 provide data to the master control unit. The controlled motors may be AC motors of the synchronous or non-synchronous type. Digital control (DSP) is used in controlling the operation of the motor loads. The slave units include an inverter 72 (Fig 3).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 9, 16, 20, 27, and 28 rejected under 35 U.S.C. 103(a) as being unpatentable over Eckersley.

With respect to claims 9, 16, and 20, although the use of a PLC is not explicitly stated in Eckersley, it would have been obvious to use one to accomplish the disclosed DSP control, so that the system's operating instructions may be configured by the user.

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With respect to claims 27 and 28, it would have been obvious to combine the data bus and DC bus of Eckersley in a single cable to provide easier installation and wiring of the system.

Claims 2, 12, and 24 rejected under 35 U.S.C. 103(a) as being unpatentable over Eckersley in view of Wehrung (US 6,853,876).

It would have been obvious to one of ordinary skill in the art at the time of the invention use a modern control protocol in the invention of Eckersley. For example, a ProfiBus may be used to transmit sensor data, as disclosed by Wehrung.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Tison (US 5,949,153) teaches a controller for multiple engines, having selectable control sets. Malkowski (US 7,081,735) teaches the use of DeviceNet protocol in motor drive control. Heckmann (US 6,349,996) teaches a decentralized control system for wheel modules.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew M. Deschere whose telephone number is (571) 272-8391. The examiner can normally be reached on M-F 8:30-6:00, every other Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Sircus can be reached on (571) 272-2800 x36. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

AMD

BRIAG SIRCUS
SUPERVISORY PATENT EXAMINATE
TECHNOLOGY OFFICER